Abdul Qayyum

List of Publications by Year
in descending order

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53	983	471061 17	454577 30
papers	citations	h-index	g-index

53	53	53	730
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Time-resolved probe measurements and sequential imaging of the pre-ionized hydrogen plasma zones in GLAST-III tokamak. International Journal of Hydrogen Energy, 2022, , .	3.8	0
2	Swept Langmuir probe investigation of a time varying DC discharge. SN Applied Sciences, 2021, 3, 1.	1.5	2
3	Spectroscopic evaluation of vibrational temperature and electron density in reduced pressure radio frequency nitrogen plasma. SN Applied Sciences, 2021, 3, 1.	1.5	12
4	Optical actinometric measurements of nitrogen impurity in Ar/He microwave discharge during wall cleaning of MT-I spherical tokamak. Vacuum, 2020, 182, 109672.	1.6	8
5	Temporal Profiling of Electron Temperatures Using the HÎ±â€“HÎ² Line Emission and Triple Langmuir Probe Array in the Pre-Ionization Discharge of the MT-I Spherical Tokamak. Fusion Science and Technology, 2020, 76, 947-956.	0.6	1
6	Development of magnetic diagnostics for Glass Spherical Tokamak (GLAST). Plasma Research Express, 2020, 2, 035004.	0.4	0
7	Active screen plasma nitriding of Alâ€“Si eutectic alloy and evaluation of compound coatings. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	3
8	Start-Up Studies of GLAST-III Spherical Tokamak in the Presence of Poloidal Field. IEEE Transactions on Plasma Science, 2019, 47, 4729-4737.	0.6	3
9	Optical Emission and Langmuir Probe Diagnostic Measurements in DC Electrode Pulse Discharge in Nitrogen. High Temperature, 2019, 57, 821-831.	0.1	4
10	A photodiode array and Langmuir probe for characterizing plasma in GLAST-III tokamak device. Measurement: Journal of the International Measurement Confederation, 2018, 125, 56-62.	2.5	8
11	Electrical and optical measurements in the early hydrogen discharge of GLAST-III. Plasma Science and Technology, 2017, 19, 085103.	0.7	5
12	Plasma measurements in pulse discharge with resistively heated emissive probe. High Temperature, 2016, 54, 802-807.	0.1	1
13	Initial Plasma Formation in the GLAST-II Spherical Tokamak. Journal of Fusion Energy, 2016, 35, 529-537.	0.5	11
14	Triple-probe Diagnostic Measurements in Plasma of GLAST Spherical Tokamak. Journal of Fusion Energy, 2016, 35, 205-213.	0.5	13
15	Symmetric tungsten triple probe diagnostic for time resolved measurements in plasma discharge. International Journal of Applied Electromagnetics and Mechanics, 2015, 49, 289-298.	0.3	0
16	Structural and Mechanical Properties of Radiofrequency Ar-N2 Plasma Nitrided Aluminium. Materials Research, 2015, 18, 353-359.	0.6	3
17	Time function triple Langmuir probe measurements in low frequency pulsed DC discharge plasma. High Energy Chemistry, 2015, 49, 286-293.	0.2	5
18	Triple Probe Measurements in Transient Plasma of Pulsed Capacitive Discharge. Journal of Fusion Energy, 2015, 34, 405-410.	0.5	8

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19	Correlation of Neutron and X-ray Emission from Plasma Focus with Pre-ionization. Journal of Fusion Energy, 2014, 33, 720-725.	0.5	2
20	DLC coating on stainless steel by pulsed methane discharge in repetitive plasma focus. Applied Surface Science, 2014, 303, 187-195.	3.1	21
21	Time-resolved measurement of plasma parameters by means of triple probe. Review of Scientific Instruments, 2013, 84, 123502.	0.6	36
22	Effect of helium mixing on excitation temperature and nitrogen dissociation in inductively coupled plasma. Current Applied Physics, 2013, 13, 969-974.	1.1	17
23	Nitrogen dissociation and parametric study in a magnetic pole enhanced inductively coupled Ar-N2plasma (MaPE-ICP). EPJ Applied Physics, 2013, 62, 30801.	0.3	3
24	SYMMETRIC AND ASYMMETRIC DOUBLE LANGMUIR PROBES CHARACTERIZATION OF RADIO FREQUENCY INDUCTIVLEY COUPLED NITROGEN PLASMA. Progress in Electromagnetics Research, 2011, 115, 207-221.	1.6	14
25	Vibrational Distribution of N₂(C, Î½) State in a Pulsed-DC Generated N₂â€“Ar Glow Discharge. Spectroscopy Letters, 2010, 43, 259-265.	0.5	2
26	Plasma nitriding of aluminium in a pulsed dc glow discharge of nitrogen. EPJ Applied Physics, 2010, 49, 21001.	0.3	17
27	Pulsed ion beam-assisted carburizing of titanium in methane discharge. Chinese Physics B, 2010, 19, 012801-10.	0.7	18
28	Dense plasma focus ion-based titanium nitride coating on titanium. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 1911-1917.	0.6	32
29	Diagnostic of 13.56 MHz RF sustained Arâ€“N₂plasma by optical emission spectroscopy. EPJ Applied Physics, 2009, 45, 11002.	0.3	41
30	Reply to comment on â€œDiagnostics of 13.56ÂMHz RF sustained Arâ€“N2plasma by optical emission spectroscopyâ€• by N. Sadeghi and F.J. Gordillo-Vazquez. EPJ Applied Physics, 2009, 47, 11002.	0.3	1
31	Synthesis of nanocrystalline multiphase titanium oxycarbide (TiCxOy) thin films by UNU/ICTP and NX2 plasma focus devices. Applied Physics A: Materials Science and Processing, 2008, 90, 669-677.	1.1	66
32	Langmuir probe characterization of nitrogen plasma for surface nitriding of AISI-4140 steel. Journal of Materials Processing Technology, 2008, 199, 363-368.	3.1	28
33	Nitridation of zirconium using energetic ions from plasma focus device. Thin Solid Films, 2008, 516, 8255-8263.	0.8	86
34	Dense plasma focus-assisted nitriding of AISI-304. Radiation Effects and Defects in Solids, 2008, 163, 729-736.	0.4	3
35	Deposition of titanium nitride on AISI-304 in a plasma focus environment. EPJ Applied Physics, 2008, 42, 145-151.	0.3	6
36	Glow Discharge Plasma Nitriding of AISI 304 Stainless Steel. Plasma Science and Technology, 2007, 9, 463-468.	0.7	9

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37	Optical actinometry of the N-atom density in nitrogen plasma. Plasma Devices and Operations, 2007, 15, 87-93.	0.6	5
38	Nitriding of titanium by using an ion beam delivered by a plasma focus. Journal Physics D: Applied Physics, 2007, 40, 769-777.	1.3	60
39	Optical emission spectroscopy of Arâ€“N2 mixture plasma. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 107, 361-371.	1.1	88
40	Deposition of diamond-like carbon film using dense plasma focus. Materials Chemistry and Physics, 2007, 103, 235-240.	2.0	35
41	Deposition of Diamond-like Carbon Films using Graphite Sputtering in Neon Dense Plasma. Plasma Chemistry and Plasma Processing, 2007, 27, 127-139.	1.1	13
42	Measurement of the plasma electron density and temperature from Stark-broadened HÎ² and HÎ³ emission profiles. Plasma Devices and Operations, 2006, 14, 99-109.	0.6	2
43	Optical emission spectroscopy of the active species in nitrogen plasma. Plasma Devices and Operations, 2006, 14, 61-70.	0.6	8
44	Effects of helium gas mixing on the production of active species in nitrogen plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 359, 499-503.	0.9	42
45	Hydrogen Balmer-Î² and Balmer-Î³ emission profiles in an abnormal glow region of hydrogen plasma. Vacuum, 2006, 80, 574-580.	1.6	15
46	Surface modification of AlFe1.8Zn0.8 alloy by using dense plasma focus. Vacuum, 2006, 81, 291-298.	1.6	38
47	Co-deposition of titanium and iron nitrides on SS-321 by using plasma focus. Radiation Effects and Defects in Solids, 2006, 161, 121-129.	0.4	13
48	Spectroscopic optimization of abnormal glow conditions for plasma ion nitriding. EPJ Applied Physics, 2005, 32, 45-52.	0.3	18
49	Optical Emission Spectroscopy of Abnormal Glow Region in Nitrogen Plasma. Plasma Chemistry and Plasma Processing, 2005, 25, 551-564.	1.1	65
50	Diagnostics of nitrogen plasma by trace rare-gasâ€“optical emission spectroscopy. Journal of Applied Physics, 2005, 98, 103303.	1.1	61
51	EFFECT OF PLASMA OXIDE SURFACE COATING OF ELECTRODES ON IMPURITY LEVEL AND PLASMA PARAMETERS. International Journal of Modern Physics B, 2004, 18, 1687-1696.	1.0	5
52	Characterization of Argon Plasma by Use of Optical Emission Spectroscopy and Langmuir Probe Measurements. International Journal of Modern Physics B, 2003, 17, 2749-2759.	1.0	24
53	Microwave-assisted pre-ionization experiments on GLAST-III. Plasma Science and Technology, 0, , .	0.7	2